

Message Text

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ORIGIN NASA-04

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DRAFTED BY NASA:DRMORRIS:MAR

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C O N F I D E N T I A L STATE 041796

EXCON

EO 11652: XGDS-1

TAGS: ESTC, COCOM, US, UR

SUBJ: US VIDICON TUBES TO USSR - IL 1555

1. THE US DELEGATION IS REQUESTED TO EXPEDITE SUBMISSION
AND APPROVAL OF THE FOLLOWING PROPOSAL:

THE UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRA-
TION AUTHORITIES WISH TO EXPORT TO THE USSR FIVE TO TEN
WX 3 1972 EBS IMAGE TUBES (VIDICON) VALUED AT 12,500 DOLS
EACH FOR A MAXIMUM TOTAL VALUE OF 125,000 DOLS AND COVERED
BY IL 1555(F).

2. THE EQUIPMENT IS CONSIGNED TO THE ACADEMY OF SCIENCES
OF THE SOVIET UNION TO BE INCORPORATED IN A COLOR TV
CAMERA SYSTEM IN CONNECTION WITH THE US/USSR COOPERATIVE
APOLLO SOYUZ TEST PROJECT (ASTP) TO DOCUMENT ASTRONAUT
ACTIVITY DURING A FLIGHT NOW SCHEDULED FOR LAUNCHING IN
JULY 1975. THE CAMERA SYSTEM WILL ALSO BE USED TO COMPLETE
PROGRAM DOCUMENTATION DURING THE DOCKED PHASE OF THE
MISSION, ESPECIALLY WHEN UNITED STATES ASTRONAUTS ARE TRANS-
FERRING TO THE SOYUZ SPACECRAFT. WE WISH TO ASSURE THAT
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CAMERAS CAPABLE OF TRANSMITTING COMPARABLE COLOR SIGNALS
ARE IN PLACE ON THE SOVIET CRAFT. THE SIGNALS WILL BE

TRANSMITTED FROM SOVIET GROUND STATIONS IN SECAM FORMAT TO RAISTING, GERMANY WHERE THEY WILL BE CONVERTED TO US STANDARD FORMAT FOR RELAY TO THE UNITED STATES.

3. THE SOVIET SIDE HAS INDICATED THAT IT IS WORKING ON AN APPROPRIATE COLOR TV CAMERA SYSTEM WHICH IT HOPES TO HAVE READY FOR THE MISSION. IT WOULD REQUIRE THE WX 3 1972 EBS TUBE, WHICH IS USED IN THE APOLLO/SKYLAB CAMERA SYSTEM, AS A BACK-UP SHOULD ITS OWN DEVELOPMENT EFFORT ENCOUNTER DELAY. THE EXACT NUMBER OF CAMERA UNITS NEEDED FOR THE MISSION WILL DEPEND ON DECISIONS YET TO BE TAKEN. A MINIMUM OF FIVE ASSUMES ONE QUALIFICATION UNIT, ONE TRAINING UNIT, ONE FLIGHT UNIT FOR EACH OF THE TWO SOYUZ SPACECRAFT DEDICATED TO THE MISSION AND ONE SPARE.

4. THE US AUTHORITIES CONSIDER THIS EXPORT REASONABLE AND APPROPRIATE FOR THE STATED END USE. THEY WISH TO APPROVE IT UNDER THE PROCEDURE SET FORTH IN COCOM DOC REG(73)3, PARAGRAPH 4(B), AND WOULD APPRECIATE THE VIEWS OF MEMBER GOVERNMENTS.

5. IN LIEU OF BROCHURES THE FOLLOWING DATA SHEET IS PROVIDED:

SENSOR - WESTINGHOUSE WX 3 1792 EBS IMAGE TUBE

PHOTOCATHODE - S20

PHOTOCATHODE DIAMETER - 25 MM

BURN RESISTANCE - SHALL NOT BE DAMAGED OR DEGRADED WITHIN SPECIFICATION LIMITS AFTER IMAGING THE SUN OR ITS REFLECTION FOR A TIME PERIOD OF 30 SECONDS. THE CAMERA SHALL RECOVER WITHIN ONE MINUTE AFTER SUCH EXPOSURE.

SPOTS AND BLEMISHES - A SPOT OR BLEMISH SHALL BE DEFINED AS A DEFECT, BLACK OR WHITE, PRODUCING A VIDEO SIGNAL VOLTAGE AMPLITUDE MORE THAN 10 PERCENT OF BLACK TO PEAK WHITE. THE MAXIMUM SIZE OF ANY SPOT, BLEMISH OR SMUDGE,
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AND THE MAXIMUM NUMBER ALLOWABLE WITHIN VARIOUS ZONES, EXPRESSED AS TV LINES PER PICTURE HEIGHT, ARE AS FOLLOWS:

MAXIMUM SIZE	ZONE 1	ZONE 2	ZONE 3
OVER 6 TV LINES	0	0	0
4 TO 6 LINES	0	0	1
4 TV LINES OR LESS	1	3	5

ZONE 1 IS AN INSCRIBED CIRCLE WITH A DIAMETER ONE-HALF OF PICTURE HEIGHT.

ZONE 2 IS AN INSCRIBED CIRCLE WITH A DIAMETER EQUAL TO THE PICTURE HEIGHT.

ZONE 3 IS THE REMAINING AREA OUTSIDE OF ZONE 2.

SPOTS, 2 TV LINES OR LESS, ARE NOT COUNTED UNLESS THEIR CONCENTRATION CAUSES A SMUDGE APPEARANCE.

NOTE: TUBE NUMBER SHOULD READ "1792" VICE "1972". CASEY

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Message Attributes

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